IN THE CLAIMS:

Please amend the claims as follows:

Claims 1-16 **(Cancelled)**

17. **(Currently amended)** A machine programming and control system, comprising:

a machine;

a computer based controller coupled to said machine and being adapted to edit, debug, and generate a continuous multi-block flowchart representing a program and to control the operations of the machine in accordance with said flowchart; and

a display connected to said computer based controller and being adapted to aid in editing and generating the flowchart, the display being adapted to display a plurality of blocks associated with the flowchart, wherein a first set of the [[~~block~~]] blocks is displayed in a first color and at least one other block is displayed in a second color, the first set of blocks being dependent from the at least one other block.

18. **(Previously presented)** The system, as set forth in claim 17, wherein the at least one other block corresponds to an active block during a runtime execution.

Claim 19. **(Cancelled)**

20. **(Previously presented)** The system, as set forth in claim 17, wherein the at least one other block corresponds to an active block during a debugging process.

Claim 21 **(Cancelled)**

22 **(Previously presented)** The system, as set forth in claim 17, wherein the at least one other block corresponds to blocks that have been modified during an editing process.

23. **(Previously presented)** The system, as set forth in claim 18, wherein a third set of blocks are displayed in a third color.

24. **(Previously presented** The system, as set forth in claim 23, wherein the third set of blocks are dependent upon the active block.

25. **(Previously presented)** The system, as set forth in claim 23, wherein the third set of blocks are associated with the active block.

26. **(Previously presented)** The system, as set forth in claim 17, wherein the at least one other block is associated with a break point.

27. **(Previously presented)** The system, as set forth in claim 17, wherein the display is adapted to form a debugging window for displaying the blocks and having a tool bar for controlling program flow.

28. **(Previously presented)** The system, as set forth in claim 27, wherein the tool bar includes a toggle labels button and the computer based controller responds to actuation of the button for switching between default labels and alternate labels displayed for the blocks.

29. **(Previously presented)** The system, as set forth in claim 27, wherein the tool bar includes a Select Active Block button and the computer based controller responds to actuation of the button for displaying a currently active one of the blocks.

30. **(Previously presented)** The system, as set forth in claim 17, wherein the computer based controller includes means for adding a break point associated with a flowchart block and wherein the computer based controller being adapted to stop at the break point during the debugging mode.

31. **(Currently amended)** A method of machine programming and control, comprising the steps of:

editing and generating a continuous multi-block flow chart via a computer based controller, the flow chart representing a program for controlling the operations of a machine connected to the computer based controller;

operating the machine in accordance with the flowchart; and,

displaying a plurality of blocks associated with the flowchart on a display, wherein a first set of the blocks are displayed in a first color and a second set of the blocks are displayed in a second color, the second set of the blocks being dependent upon the first set of the blocks.

32. **(Currently amended)** The method, as set forth in claim 31, wherein the ~~at least one other block~~ first set of blocks corresponds to an active block during a runtime execution.

Claim 33 **(Cancelled)**

34. **(Currently amended)** The method, as set forth in claim 31, wherein the ~~at least one other block~~ first set of blocks corresponds to an active block during a debugging process.

Claim 35 **(Cancelled)**

36. **(Currently amended)** The method, as set forth in claim 31, wherein the ~~at least one other block~~ first set of blocks corresponds to blocks that have been modified during an editing process.

37. **(Previously presented)** The method, as set forth in claim 32, wherein a third set of blocks are displayed in a third color.

38. **(Previously presented)** The method, as set forth in claim 37, wherein the third set of blocks are dependent upon the active block.

39. **(Previously presented)** The method, as set forth in claim 37, wherein the third set of blocks are associated with the active block.